IEEE

PHYLLIS HALL
Staff Director, Publishing Services

345 East 47th St., New York, NY 10017-2394 U.S.A.
Telephone: (212) 705-7366 Telex: 236411 Fax: (212) 981-7682

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Sand Bao, Jr
MB

National Research Council Canada
Conseil national de recherches Canada

Joan E. Hill

Operations Manager
Research Journals

Building M-55, Montreal Road
Ottawa, Canada K1A 0R6
Tel: *613* 993-0362 Fax: *613* 952-7656

Canada

General Magic

Jabol
415 321-3720

Champlain & Associates

Information Systems Integration
Unix & Network Administration
Smalltalk Programming
Client/Server Applications

Fred Champlain
Systems Architect

1207 Cambridge Court
Ann Arbor, Michigan 48104
313.741.4785

Pete Johnson
Publication Tools Development

gray hair

Apple Computer, Inc.
20525, Mariani Avenue, MS: 41J
Cupertino, California 95014
408 862-5277
AppleLink: PJ.1

Tom Eastwood
Distributed Server Development Manager
Apple Online Services

Apple Computer, Inc.
20300 Stevens Creek Blvd., MS: 41J
Cupertino, California 95014
408 862-6285
AppleLink: EASTWOOD.T

NCMS

313-995-0300
fax 313-995-4004

National Center for Manufacturing Sciences

900 Victors Way
Ann Arbor, MI
48108-1779

Ted E. Olson
Senior Vice President
Technology Transfer

Bus: (713) 483-4368
Fax: (713) 483-3047

Kenneth C. Jenks
Aerospace Technologist
Information Systems, Space Shuttle Program Office

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Lyndon B. Johnson Space Center, GM2, Houston, TX 77058

David Hendler
Verbal Wrangler

General Magic
2465 Latham Street
Mountain View
California 94040

415 965 0400
415 966 6226 direct
415 965 9424 fax

Thinking Machines Corporation

245 First Street
Cambridge, MA 02142-1214
617·876·1111

Brewster Kahle
Machine Designer

RICHARD MARK SOLEY
CONSULTING SOFTWARE ENGINEER
COMPUTER ARCHITECTURE · AI APPLICATIONS

ONE DEVONSHIRE PLACE #2201
BOSTON, MASSACHUSETTS 02109
(617) 742-6120

Sun Microsystems
Federal, Inc.
A Sun Microsystems, Inc. Business

Frederic W. Corle II
Manager Strategic
Market Development

2650 Park Tower Drive, Suite 500
Vienna, VA 22180
703 204-4848
703 204-4788 fax
fred.corle@East.Sun.Com

HOPKINS & CARLEY
A LAW CORPORATION

WAYLAND M. BRILL
ATTORNEY AT LAW

150 ALMADEN BOULEVARD
FIFTEENTH FLOOR
SAN JOSE, CALIFORNIA 95113
FACSIMILE (408) 998-4790
TELEPHONE (408) 286-9800
DIRECT DIAL (408) 299-1324

Harvard
Community
Health
Plan

Cambridge Center

1611 Cambridge Street
Cambridge, MA 02238
(617) 661-5450

Call-in Time:
8:30-9:00 A.M.
1:30-2:00 P.M.

Alan Brush, M.D.
Roberta Herman, M.D.
Brad Potts, R.N.R.

Harvard Community Health Plan

034 54 38R
BREWSTER L KAHLE
MA PLUS 03 03/30 CTR
CAMBRIDGE HEALTH CENTER
617 661-5500 10-21-60

Brewster E. Kale
Hardware Design Engineer

Terrapin, Inc.
380 Green Street
Cambridge, MA 02139

Telephone
(617) 492-8816

---

the Electric WEENIE INC.

JIM DONOHUE
ANDREW J. HIMMEL
MANAGING EDITOR

P.O. BOX 2715
QUINCY, MA 02269
617•749•6900 **Ext 248** **1•800•225•5061**

Applied Physics Laboratory
University of Washington

Bill Hanot
Ocean Engineer

1013 NE 40th Street
Seattle, Washington 98105

(206) 543-1300

PHILIP GREENSPUN

DIRECTOR PRODUCT DEVELOPMENT

ISOSONICS

55 RUSSELL STREET
MELROSE MA 02176
617 662 8735
FAX: 617 979 0792

Grolier Electronic Publishing, Inc.
95 MADISON AVENUE
NEW YORK, NEW YORK 10016 • (212) 696-9750

Michael W. Cocke

DATABASE COORDINATOR

Brewster Kahle

Thinking Machines Corporation

245 First Street
Cambridge, MA 02142-1214
Tel. 617 876-1111

Brewster E. Kahle
Machine Designer

Thinking Machines

245 First Street
Cambridge, MA 02142
Tel. 617 876-1111

Thinking Machines Corporation

245 First Street
Cambridge, MA 02142-1214
617·876·1111

Brewster Kahle
Machine Designer

Thinking Machines Corporation

BREWSTER E. KAHLE
MACHINE DESIGNER

245 FIRST STREET
CAMBRIDGE, MA 02142-1214
TELEPHONE: (617) 876-1111
FAX: 617-876-1823
ARPANET: brewster@think.com

CONQUEST
SOFTWARE

9700 Patuxent Woods Drive ▪ Suite 140
Columbia, Maryland, USA 21046
Bus. (410) 290-7150 ▪ Fax (410) 290-7155
Car (202) 679-3468

Bob Kaminski
Director, New Business Development

is interested in prot integration

Gerard A. Schlak, PhD
Account Manager

EMASS
STORAGE SYSTEM SOLUTIONS
From **E-SYSTEMS**

P.O. BOX 660023 • 2260 MERRITT DRIVE • DALLAS, TEXAS 75266-0023
(214) 205-7268 • FAX (214) 205-7200

Inter Guru

Send OSC slides

Joseph Davidson Ph.D.

Internet & Computer Consulting

1501 Dublin Drive
Silver Spring, MD. 20902

(301) 593-4152
(301) 593-4152 fax
jdavidson@igc.org

Mead Data Central

Molly J. Bowater
Account Representative
LEXIS®/NEXIS®

1150 Eighteenth Street, N.W., Suite 600
Washington, DC 20036
(202) 857-8262 • (800) 368-5868
Fax: (202) 857-8233
Customer Service: (800) 543-6862

WAIS Inc

Wide Area Information Servers

Kevin Oliveau
Information Engineer

1040 Noel Drive
Menlo Park, CA 94025
415.617.0444
Fax 415.327.6513

11067 Copperstone Court
Rockville, MD 20852
301.309.1280
oliveau@wais.com

EPA

DAVID BASSETT

POLLUTION PREVENTION OFFICE

U.S. ENVIRONMENTAL PROTECTION AGENCY
401 M STREET, S.W. (PM-222B)
WASHINGTON, DC 20460
(202) 260-2720
FAX (202) 260-0178

Printed on recycled paper

UNICARD

UNICARD Systems, Inc. Division of ABC Data, Inc.

No. 1516991

PAID JUL 2 2 1992

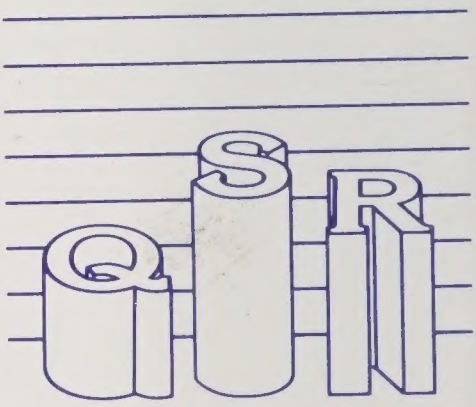
NAME: _____ DATE: _____

Embossed SILVER UNICARD Available
Call (214) 385-4000

Quantitative Software Reports

Jay B. Siegel
Managing Director

P.O. Box 60997
Palo Alto, California 94306
(415) 493-1551



ALPHA OMEGA
Fine Jewelry

LUISA G. FOLEY

Galeria Mall • 57 J.F.K. Street • Harvard Square
Cambridge, MA 02138 • (617) 864-1227
1-800-447-GEMS • FAX (617) 492-7835

HOWARD L. RESNIKOFF
Founder and CEO

AWARE, INC.

One Memorial Drive
Cambridge, MA 02142-1301
hlr@aware.com
617 • 577 • 1710 FAX
617 • 577 • 1700

Sun Microsystems, Inc.
Silicon Valley North Sales Office
MS MTV100-03
1842 North Shoreline Boulevard
Mountain View, CA 94043
415 960-4364
FAX 415 961-7933

Shannon Bushman
Systems Engineer
shannon.bushman@West.sun.COM

Sun Microsystems, Inc.
MS MTV100-0
Silicon Valley North Sales Office
1842 N. Shoreline Blvd.
Mountain View, CA 94043
415 960-4333
FAX 415 961-7933

Greg Smith
Sales Representative
greg.smith@West.Sun.COM

Doug Kester

Doug @ reach. com

REACH NETWORKS INC

588 Broadway New York, NY 10012

212 274 0612 [fax 274 0695]

214-526-0379 FAX 214-520-3149

INTERSOLVE
GROUP INC.

Peter B. McKee
Director

300 TURTLE CREEK CENTRE
3811 TURTLE CREEK BOULEVARD
DALLAS, TEXAS 75219

Database Research and Information Services

ONLINE
RESOURCES

John S. Rosenberg
President

2035 North Lincoln Street
Arlington, Virginia 22207

(703)358-9600 (800)678-9393 Fax (703)358-9604

Alan H Nierenberg
Staff Director
Data Networking Services

Telesector Resources Group

A subsidiary of New England Telephone
and New York Telephone

Telesector Resources Group
222 Bloomingdale Road Rm 104
White Plains New York 10605
914 644 4976 Fax 914 644 4954

Anthony M. Rutkowski
Director
Technology Assessment

12490 Sunrise Valley Drive
Reston, VA 22096 U.S.A
TEL: +1 703 689 5080
FAX: +1 703 689 6715
SprintMail ID: A.RUTKOWSK
INTERNET: amr@sprint.co

AMR@NRI.RESTON.VA.US

PERFORMANCE
SYSTEMS INTERNATIONAL, INC.

11800 Sunrise Valley Drive
Suite 1100
Reston, VA 22091
Phone: 703.620.6651
Fax: 703.620.4586

William L. Schrader
President & CEO
wls@psi.com

infonet

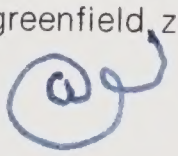
Jean-Noel Moneton
Vice President
Communication Services

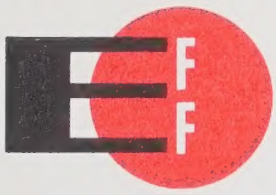
Marketing Division
2100 East Grand Avenue
El Segundo, California 90245

(213) 335-2874
(213) 335-2876 (FAX)

Stanley R. Greenfield
Vice President

Ziff Communications Company
One Park Avenue, New York, NY 10016
(212) 503-3540 · Fax (212) 503-4108
MCI ID: 468-9513
IN% "sgreenfield_zis.ziff.com"





Andrew Blau
Telecommunications Policy Associate

Electronic Frontier Foundation, Inc.
666 Pennsylvania Ave. SE, Suite 303
Washington, DC 20003
(202)544-9237
Fax: (202)547-5481
Internet: blau@eff.org

William E. Grant
Director
Advanced Communications
Services

U S WEST Communications, Inc.
1999 Broadway Suite 800
Denver, Colorado 80202
303 965-9248

Internet:
wgrant@spot.colorado.edu

BNA ONLINE

CHARLOTTE A. KUENEN
Director
Database Development and Operations

1231 25th Street, N.W., Washington, D.C. 20037 (202) 452-4554
A Division of The Bureau of National Affairs, Inc.

infonet

George Abe
Technical Product Manager

4247140@mcimail.com

2100 East Grand Avenue
El Segundo, California 90245 USA

(213) 335-2867
(213) 335-2876 (FAX)

Home: 241-9205

Miles R. Fidelman
BBN/Slate™ Product Manager
Senior Systems Engineer

BBN SYSTEMS AND TECHNOLOGY
A Division of Bolt Beranek and Newman Inc.
10 Moulton Street, Cambridge, MA 02138
Telephone: 617-873-2494 MCI: MFIDELMAN
FAX: 617-873-5620 Internet: mfidelman@bbn.com

Sun Microsystems Europe Inc.
BP 62 - 13, av. Morane Saulnier
78142 Vélizy Cedex
France
Téléphone : (33) 1.30.67.50.38
Fax : (33) 1.30.67.52.95

Katherine WEBSTER
Manager, Education and Research Market
European Industry Marketing
kwebster@France.Sun.COM

GDB

Genome Data Base

The Johns Hopkins University
School of Medicine
and the William H. Welch
Medical Library

Robert J. Robbins, Ph.D.
Director
Laboratory for Applied Research
in Academic Information
Welch Medical Library

1830 East Monument Street
Baltimore, Maryland 21205
301-955-9705
FAX: 301-955-0054
Internet:
rrobbins@welch.jhu.edu

TELEPUBLISHING REPORT
284 HARVARD ST. - SUITE 64
CAMBRIDGE, MA 02139
617/354-3919

LAWRENCE KINGSLEY
EDITOR AND PUBLISHER

MCI MAIL: TELEPUBLISHING
APPLELINK: TELEPUBLISH
COMPUSERVE MAIL: 71161, 536

STEVEN P. WEINSTEIN

67 PARK AVENUE
NEW YORK, NY 10016

TEL 212 683-8949
FAX 212 481-0086

Hexagon! sweinc@ulnet.uu. not

NEC

TOSHIKAZU FUKUSHIMA
TERMINAL SYSTEMS RESEARCH LABORATORY
C&C SYSTEMS RESEARCH LABORATORIES

NEC Corporation
1-1, MIYAZAKI 4-CHOME,
MIYAMAE-KU, KAWASAKI,
KANAGAWA 213 JAPAN

TEL (044) 856-2176
FAX (044) 856-2232
E-MAIL:fuku@tsl.cl.nec.co.jp

MCC

MICROELECTRONICS AND
COMPUTER TECHNOLOGY
CORPORATION

Brian Kushner
Vice President, Corporate Development

601 Thirteenth Street, N.W.
The Homer Building, Suite 1170S
Washington, D.C. 20005
(202) 347-4799
Kushner@CHARM.ISI.EDU
FAX (202) 638-5391

3500 West Balcones Center Drive
Austin, Texas 78759-6509
(512) 338-3563
Kushner@MCC.COM
FAX (512) 338-3888

Robert John Simon
President

Virgil Corporation
290 Green Street, Suite #1
San Francisco, California 94133

Tel 415.433.4698
Fax 415.433.8411
ALink: D0221

SYSTEMHOUSE

John R. Coyne
Director, National Sales

Systemhouse Inc.

1010 North Glebe Road, Suite 200
Arlington, VA, U.S.A. 22201-5700
(703) 276-0500
Fax: (703) 525-8945

95 Horatio Street
New York, NY, U.S.A. 10014
(212) 727-3176
Fax: (212) 727-1436

Foretune

President/CEO Shigeya Suzuki

Foretune Co., Ltd.

Research and Development Div.
Daini Shuukaen Building 8th Floor
2-11-3 Komazawa Setagaya-ku Tokyo 154 JAPAN
Phone : +81 3 5481 8431 Fax : +81 3 5481 8432
Internet : shige @ foretune. co. jp
CompuServe : 76663, 201

AMERICAN INSTITUTE OF PHYSICS

Taissa T. Kusma
Director
Electronic Publishing

500 Sunnyside Boulevard
Woodbury, NY 11797-2999
Tel. 516-576-2260 ● Fax 516-349-9704
E-mail: taissa@pinet.aip.org

CLEMSON UNIVERSITY

Joseph F. Boykin, Jr.

DIRECTOR OF LIBRARIES

ROBERT M. COOPER LIBRARY
CLEMSON, S.C. 29634-3001

803/656-3026 (O)
803/654-4936 (H)
BITNET: JBOYKIN@CLEMSON

JOHNS HOPKINS
UNIVERSITY

Robert J. Robbins, Ph.D.
Director

Laboratory for Applied Research in Academic Information

Welch Medical Library / School of Medicine
1830 East Monument Street / 3rd Floor
Baltimore MD 21205
(410) 955-9637 / FAX (410) 955-0054
Internet: rrobbins@welchgate.welch.jhu.edu

National Aeronautics and
Space Administration

NASA

Lyndon B. Johnson Space Center
Mail Code PA
Houston, TX 77058
(713) 483-8105
FAX (713) 483-5200
RSAVELY @ NASAMAIL. NASA.GOV

Robert T. (Bob) Savely
Chief Scientist, Advanced Software Technology
Information Systems Directorate

CONQUEST
SOFTWARE

9700 Patuxent Woods Drive ■ Suite 140
Columbia Maryland, USA 21046
Bus. (410) 290-7150 ■ Fax (410) 290-7155

Edwin R. Addison
President & CEO

DOWPHONE®

Dennis Glass
Manager, Software Systems
Phone number: 1 (609) 520-4925

DOW JONES & COMPANY, INC.
Route 1 at Ridge Road, South Brunswick
Mailing address: PO Box 300, Princeton, NJ 08543-0300

Route 1 at Ridge Road
South Brunswick, NJ
0 8 8 5 2

Mailing Address:
P.O. Box 300
Princeton, NJ
08543-0300

FAX: (609) 520-4933

Dow Jones & Company Inc.
Telco Alliance Development

Voice Information Services

Thomas Pace
Executive Director
(609) 520-4898

RICHARD A. JOHNSON
Principal

BOOZ·ALLEN & HAMILTON INC.

SUITE 600
1953 GALLOWS ROAD
VIENNA, VIRGINIA 22182-3934

TEL.: (703) 902-7000
FAX: (703) 902-7171

AMERICA ONLINE
INCORPORATED

8619 Westwood Center Drive
Vienna, Virginia 22182-2285

703/448-8700 703/883-1505
FAX 703/883-1509

America Online: MSeriff
Internet: mseriff@aol.com

Marc Seriff
Senior Vice President, Product Research

Poor Associates

Working at the boundary between
People and Computers

E. Ward Poor
Principal

41 Munroe Road, Lexington, MA (617) 861-1215

Thinking Machines Corporation

245 First Street
Cambridge, MA 02142-1214
617·876·1111

Brewster Kahle
Machine Designer

BayBanks
XPRESS24®

560201 09236745 33

VALID AS OF 08-85 GOOD THRU 09-87
BREWSTER KAHLE

Steven P. Jobs
President

NeXT, Inc.
3475 Deer Creek Road
Palo Alto, CA 94304

415 424 0200
415 424 0476 Fax

367-8494

The Melody Box

North Building
5 Faneuil Hall Market Place
Boston, MA 02109

Microsoft Corporation
One Penn Plaza
47th Floor
New York, NY 10119

Tel 212 629 8880
Fax 212 629 8972

Microsoft®

Charles F. Kahle
National Account Executive/Windows Applications Specialist
NE National Accounts

Acupuncture

Counseling

Laura Christensen M.A. R.Ac.

Hakomi Body-Centered Psychotherapy

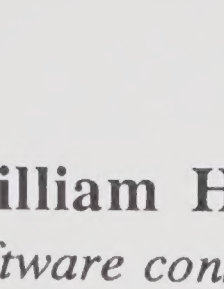
William Hofmann
software consultant

(415) 550-6901
382 29th Street
San Francisco, CA 94131

Alison L. Kahle
Executive Banking Coordinator
The Executive Banking Group
614 463-5678

BANK ONE
100 East Broad Street
Columbus, Ohio 43271-0301

BANK ONE™



Dan'l Lewin
Vice President
Sales and Marketing

NeXT, Inc.
3475 Deer Creek Road
Palo Alto, CA 94304
415 424 0200
415 424 0476 Fax

DR. ELIAS SNITZER
TECHNICAL DIRECTOR

FIBER OPTICS

POLAROID CORPORATION
38 HENRY STREET
CAMBRIDGE, MASSACHUSETTS 02139
PHONE: 617-577-5007

Polaroid

MITCHELL WADE
SOFTWARE DEVELOPMENT

OMNIMUSES SIMULATIONS

DIGITAL PRODUCTIONS
3416 SOUTH LA CIENEGA BOULEVARD
LOS ANGELES, CALIFORNIA 90016 213 938 1111

GARY DEMOS
EXECUTIVE
VICE PRESIDENT

WHITNEY/DEMOS PRODUCTIONS
11693 SAN VICENTE BOULEVARD SUITE 256
LOS ANGELES, CALIFORNIA 90049
213 207 3736 FAX 213 201 7482

National Aeronautics and
Space Administration
Ames Research Center
Moffett Field, CA 94035
415-694-6841
dbailey@ames-nas.arpa

NASA

Dr. David H. Bailey
Applications Analyst
Numerical Aerodynamic Simulation Project

E E S

Expert-EASE Systems, Inc.

Peter W. Wallace
Senior Knowledge Engineer

1301 Shoreway Road
Belmont California 94002
415 593 3200

SIMULATION ANALYSIS FOR LOGIC AND TIMING

salt T.M.

Tom Keasler
President

the cad group, inc.

3911 PORTOLA DRIVE
SANTA CRUZ, CA 95062
TELEPHONE: (408) 475-5800
475-SALT

Saxpy

Felix Lam
Director, Software

Saxpy Computer Corporation
255 San Geronimo Way
Sunnyvale, California 94086
408/732-6700

BayBanks® XPRESS24®

560201 09236745 15

VALID 09-84 GOOD THRU 09-86
FIRST DAY OF LAST DAY OF
BREWSTER KAHLE

930163

1.00 MAY C '86

Monthly Transit Pass

C-1.00
Rapid Transit

Streetcar, Bus
Express Bus

Massachusetts Bay
Transportation Authority

C-1.00 ← DIRECTION OF MOTION C-1.00

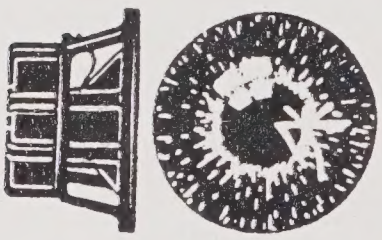
PALO ALTO RESEARCH
Schlumberger

(415) 496-4645
gak@SRI-KL

Glenn Kramer
Computer Scientist
Artificial Intelligence Research

Computer Aided Systems Laboratory
3340 Hillview Ave
Palo Alto, CA 94304

p.a. • recording • dance • photography • graphics



SOUND VISIONS™

DAVID A. SHEPPARD

(617) 868-6969

178 Harvard Street, Cambridge MA

BayBanks®

VISA

4115

4115 149 860

VALID FIRST ▶ 05/86 GOOD THRU ▶ 05/87 CV

BREWSTER B. KAHLE

CLASSIC

88 SIMMONS COLLEGE
300 THE FENWAY
BOSTON, MA 02115

EXPIRES-5/31

THIS CARD IS THE PROPERTY OF SIMMONS COLLEGE, AND MUST BE RETURNED TO THE BUSINESS MANAGER UPON WITHDRAWAL OR CHANGE OF RESIDENCE STATUS. IF FOUND, RETURN POSTAGE GUARANTEED

ID NUMBER

S A Barrow
SIGNATURE OF REGISTRAR

STUDENT SIGNATURE

Kale, Brewster LS
1006 Broadway, Somerville, MA 02144

RICHARD MARK SOLEY
Senior Software Engineer

617-535-7700

PicTel Corporation

ONE INTERCONTINENTAL WAY
PEABODY, MASSACHUSETTS 01960

THE DROID WORKS
AN AFFILIATE OF LUCASFILM LTD. & CONVERGENCE CORPORATION

MICHAEL HAWLEY
Digital Audio Development

ucbvax!dagobah!mike

P.O. Box CS 8180, San Rafael, California 94912
Telephone: 415/485-5000

apollo

Joseph Bowbeer
Engineer
Graphics Software

apollo computer inc.
330 Billerica Road, Chelmsford, MA 01824
617-256-6600 TWX 710-343-6803

Michael E. Lesk
Division Manager
Computer Science Research

Bell Communications Research
435 South Street, MRE 2A-385
Morristown, NJ 07960
Phone (201) 829-4070
UUCPnet: bellcore!lesk

PROJECT ATHENA

Daniel E. Geer, Jr.
Manager of Systems Development

Room E40-342F
Massachusetts Institute of Technology
Cambridge, MA 02139
(617) 253-0155
geer@athena.mit.edu

The Boston Computer Society
Macintosh User Group
1972 Massachusetts Ave.
Cambridge, MA 02140
617.864.1700 voice
617.864.3501 fax

Peter Smith
Operations Manager
617.628.5395 H

BCS Mac

LEW JENKINS
Chairman

ACS PREMENOS

1000 Burnett Ave., Ste 200
Concord, CA 94520

(510) 602•2000
(510) 602•2133 FAX

LOUIS H. SHARPE II
President

PICTURE ELEMENTS
INCORPORATED

Box 75760
Washington D.C.
20013-0760
Telephone
202-543-PIXL
Facsimile
202-543-6767
Email
419-1290
@mcimail.com

LOUIS H. SHARPE II
President

PICTURE ELEMENTS
INCORPORATED

Box 75760
Washington D.C.
20013-0760
Telephone
202-543-PIXL
Facsimile
202-543-6767
Email
419-1290
@mcimail.com

ARTHUR J. COLLMEYER

1060 E. Arques
Sunnyvale, California
94086
TWX: 910-339-9545
FAX: 408-738-1185
TEL: 408-738-8400

Brewster E. Kahle
Machine Designer

Thinking Machines

245 First Street
Cambridge, MA 02142
Tel. 617 876-1111

CIGNA Corporation

Allan Z. Loren
President
Systems Division

CIGNA

(215) 557-5252

One Logan Square
Philadelphia, PA 19103

Donald E. Walker, Ph.D.
Manager, Artificial Intelligence
and Information Science Research

Bell Communications Research
435 South Street, MRE 2A379
Morristown, NJ 07960
Phone (201) 829-4312
from usenet: bellcore!walker
from arpanet: bellcore!walker@berkeley

Northern Equities Inc.

Richard T. Bueschel
Chairman

P.O. Box 368, 303 Whippleplace

Lebanon, NH 03766

603-448-1855

Charles M. Goldstein
Chief, Information Technology
Lister Hill National Center for
Biomedical Communications
National Library of Medicine
(301) 496-1936

8600 ROCKVILLE PIKE • BETHESDA, MARYLAND 20894

U.S. General Services Administration
Information Resources Management Service
Office of Telecommunications Services

HENRY LAI
Director, Telecommunications
Customer Requirements Office

18th & F Sts., N.W.
Washington, DC 20405

Office (202) 501-0459
~~FTS 241-0459~~
Facsimile (202) ~~501-1680~~
108-5111

U. S. Department of Commerce
National Technical Information Service

Tom Walters call

DONALD R. JOHNSON
Acting Director

Bart Hull

Room 200, Forbes Building, Springfield, VA 22161

703-487-4636
301-975-4500

FAX 703-487-4093

steeler@well.sf.ca.us

ROBERT DAVID STEELE
USMC Management Analyst
National Foreign Intelligence Program/
General Defense Intelligence Program

C4I Resources Management Division
Headquarters U.S. Marine Corps
3200 Wing, Room 3225
Arlington (Navy) Annex
Washington, D.C. 20380-0001

TEL: (703) 693-5422
DSN: 223-5422
UNCLAS FAX: (703) 697-7216
SECURE FAX: (703) 614-8160
MSG CODE://CRB-3//

Get Mac TCP

MARK ROSENBAUM

BOOZ·ALLEN & HAMILTON INC.

SUITE 600
1953 GALLOWS ROAD
VIENNA, VIRGINIA 22182-3934

TEL.: (703) 902-7000
FAX: (703) 902-7171
Internet: markr@ads.com

FOREIGN TECHNOLOGY DIVISION (AFSC)

THOMAS R. PEDTKE
TECHNICAL DIRECTOR

FTD/SQ
WRIGHT-PATTERSON AFB
OHIO 45433-6508

(513) 257-6121
AV 787-6121
HOME: (513) 434-2483

MITRE

Mark T. Maybury, Ph.D.
Associate Department Head
Advanced Information Systems Technology
(617) 271-7230
maybury@mitre.org

The MITRE Corporation • 202 Burlington Road
Bedford, Massachusetts 01730-1420

TOM KRAAY
Principal

BOOZ·ALLEN & HAMILTON INC.

SUITE 600
1953 GALLOWS ROAD
VIENNA, VIRGINIA 22182

TEL.: (703) 902-7115
FAX: (703) 902-7171

BASIL H. MANNS, P.E.
Physical Scientist
Preservation Directorate

Library of Congress
Washington, DC 20540

202-707-8345
FAX: 202-707-3434
Internet: bman@seq1.loc.gov

NASA STI PROGRAM
SCIENTIFIC & TECHNICAL INFORMATION

call him

WALTER R. BLADOS
International Programs

NASA Headquarters, Code NTT
Washington, DC 20546
wblados@sti.nasa.gov

(W) (703) 271-5634
(H) (703) 243-4682
(Fax) (703) 271-5665

NATIONAL INSTITUTES OF HEALTH

(301) 496-2475
FAX: (301) 480-9241

David J. Lipman, M.D.
Director

National Center for Biotechnology Information
National Library of Medicine
National Institutes of Health
Bldg. 38A, Room 8N803
Bethesda, MD 20894

lipman@ncbi.nlm.nih.gov

STERN
New York University

AJIT KAMBIL
Assistant Professor
Department of Information Systems

Leonard N. Stern School of Business
Management Education Center
44 West 4th Street, Suite 9-82
New York, NY 10012-1126
TEL: (212) 998-0843
FAX: (212) 995-4228
e-mail: akambil@stern.nyu.edu

Information Access

COMPANY

364 Lakeside Drive
Foster City, California 94404
Telephone 415 358 4621
800 227 8431
Facsimile 415 378 5466

a Ziff Communications Company

James L. Outman
Vice President
Product Development

Information Dimensions, Inc.

a BATTELLE Subsidiary

1320 Old Chain Bridge Road
McLean, Virginia 22101

John A. Marrah
General Manager
IDI East and Federal Systems
Corporate Director
(703) 827-5510 Fax: (703) 827-5517

DEPARTMENT OF THE AIR FORCE
Foreign Aerospace Science
and Technology Center

BLAINE BAKER
TECHNICAL ADVISOR

FASTC/DXL
WRIGHT-PATTERSON AFB
OHIO 45433-6508

COMMERCIAL (513) 257-2343
DSN 787-2343
UNCLASS FAX (513) 257-9888

Citicorp
Technology
Office

Citibank, N.A.
909 Third Avenue
32nd Floor
New York, NY
10022

212/559-1876
Fax:
212/832-7497

Daniel Schutzer
Vice President

CITIBANK®

Howard P Reis
Director-Business Development
Multimedia Communications

NYNEX

NYNEX Science & Technology Inc
500 Westchester Avenue
White Plains NY 10604
914 644 2067 Tel
914 ~~688~~ 644 2260 Fax
reis@nynexst.com

MCC

MICROELECTRONICS AND
COMPUTER TECHNOLOGY
CORPORATION

Howard W. Curtis
International Representative
ILO

3500 West Balcones Center Drive
Austin, Texas 78759-6509
(512) 338-3792
Curtis@MCC.COM
FAX (512) 338-3898

AMERICA ONLINE
INCORPORATED

8619 Westwood Center Drive
Vienna, Virginia 22182-2285

703/448-8700
FAX 703/883-1514

America Online: Audrey
Internet: audrey@aol.com

Audrey Y. Weil
Vice President, Development

Paul C. Hoffman
Catalyst

EarthSeals
Stickers of the Whole Earth from Space

P.O. Box 8000
Berkeley, CA 94707 USA

(510) 845-8977
Please Call After Noon

Paul C. Hoffman
Personal Liberator, Catalyst, Freelance Angel

PO Box 7182, Berkeley, CA 94707 USA
Please call only after 12 Noon PST (415) 540-6842*
[* (510) after 9/91]

phoffman@igc.apc.org
Personal Information Systems Management

ROBERT MCHENRY

EDITOR IN CHIEF
ENCYCLOPÆDIA BRITANNICA, INC.
BRITANNICA CENTRE
310 SOUTH MICHIGAN AVENUE
CHICAGO, ILLINOIS 60604
Bmchenry@eb.com

(312) 347-7450

InterNex
Information Services, Inc.

Geoff White
Director of Network Operations

InterNex Information Services, Inc.
1050 Chestnut Street, Suite 202
Menlo Park, CA 94025

Voice: (415) 473-3060
FAX: (415) 473-3062
geoffw@internex.net

WAIS Inc

Wide Area Information Servers

Mary Katherine Austin

1040 Noel Drive
Menlo Park, CA 94025
415.327.WAIS

Fax 415.327.6513
mka@wais.com

Henri TAVERNIER
Agence AVIATION CIVILE

129, rue de l'Université
75007 Paris
Ligne Directe 33 (1) 49 55 95 15
Standard 33 (1) 49 55 99 00
Télex 204722 F
Télécopie 33 (1) 45 55 00 29
Groupe CAP GEMINI SOGETI

CAP SESA TERTIAIRE

Illinois Benedictine College

Professor Michael S. Hart
Director, Project Gutenberg

405 WEST ELM ST. • URBANA, IL 61801
hart@uiucvmd bitnet • hart @ vmd. cso. uiuc. edu
(217) 344-0367, (217) 344-5009

National Center for Biotechnology Information
National Library of Medicine

James M. Ostell, Ph.D.
Chief, Information Engineering Branch

Bldg. 38A, 8600 Rockville Pike, Bethesda, MD 20894
Voice 301-496-2475 FAX 301-480-9241
ostell@ncbi.nlm.nih.gov

The University of Alabama in Birmingham

Warren Thomas Jones, Ph.D., P.E.
Professor and Chairman
Department of Computer and Information Sciences
205/934-2213

jones@cis.uab.edu
~~CSNET: jones.uabcs@udel-relay~~
UNIVERSITY STATION / BIRMINGHAM, ALABAMA 35294

CENDI

Commerce, Energy, NASA, NLM,
Defense Information

Bonnie C. Carroll
Secretariat Director

Phone: (615) 481-0388
Fax: (615) 481-0390

100 Tulsa Rd., Suite 19
P.O. Box 4141
Oak Ridge, Tennessee 37831

THE UNIVERSITY OF
ARIZONA
TUCSON ARIZONA

Bruce R. Schatz, Ph.D.
Director
Community Systems Laboratory
schatz@csl.biosci.arizona.edu

Life Sciences South, 348A
Tucson, Arizona 85721
Office: (602) 621-9174
FAX: (602) 621-3709

EJV Partners, L.P.
One Seaport Plaza, 19th Floor
New York, New York 10292
Fax: (212) 214-7275

(212) 214-7236

EJV Partners

Eric A. Breitenbach

E J V PARTNERS, L.P.

Michael D. Angle
Telephone (212) 214-7074
Fax (212) 214-7275

One Seaport Plaza, 19th Floor, NY, NY 10292

ARL / CAUSE / EDUCOM

COALITION FOR NETWORKED INFORMATION

To Advance Scholarship
and Intellectual Productivity

1527 New Hampshire Ave., N.W.
Washington, D.C. 20036

202 232-2466
202 462-7849 FAX

Craig A. Summerhill
Systems Coordinator

craig@cni.org
(192.100.21.1)

---

nsf

Send PPA Fed-ex

STEVEN N. GOLDSTEIN

Program Director, Interagency and International Coordination
Division of Networking and Communications Research and Infrastructure

National Science Foundation
1800 G Street, N.W.
Washington, D.C. 20550

(202) 357-9717
goldstein@note.nsf.gov

NATIONAL HUMANITIES CENTER

Walter Alan Tuttle
Librarian

atuttle@ecsvax.uncecs.edu

NATIONAL HUMANITIES CENTER
7 Alexander Drive, Research Triangle Park, NC 27709
Telephone 919 549 0661

THE UNIVERSITY OF NORTH CAROLINA

SCHOOL OF INFORMATION AND LIBRARY SCIENCE

Barbara B. Moran, Ph.D.
Dean & Professor

(919) 962-8363
CB# 3360, Manning Hall
Chapel Hill, N.C. 27599-3360
Moran@ils. unc. edu
FAX: 919-962-8071

National Center for Biotechnology Information
National Library of Medicine

Warren Gish, Ph.D.
Staff Fellow

Bldg. 38A, Rm. 8S-806, 8600 Rockville Pike, Bethesda, MD 20894
(301) 496-2475 FAX: (301) 480-9241
gish@ncbi.nlm.nih.gov

(213) 740-2336
DMIHRAM @ USCVM (BITNET)

DR. DANIELLE MIHRAM
HEAD, REFERENCE CENTER
DOHENY MEMORIAL LIBRARY

(USC)

UNIVERSITY OF SOUTHERN CALIFORNIA
DML-117, LOS ANGELES, CALIFORNIA 90089-0182

Tufts University
Medford, MA 02155

LINCOLN FILENE CENTER

JGeiermann @ igc.org

Joseph Geiermann
COORDINATOR, GLOBAL ACTION NETWORK
PHONE: 617/~~381~~-3423 Fax: 617/~~381~~-3401
627 627

STARWAVE
CORPORATION

Andrew Nobbs
Vice President, Engineering

ANDYN @ STARWAVE.COM (as of August)

Office (206) 957-2000
Direct ~~(206) 637-8025~~ 957.2770
FAX (206) 957-2009

13810 S.E. Eastgate Way
Suite 400
Bellevue, WA 98005

Daniel A. Goldman
Research Analyst
Advanced Computer Applications Center
(708) 252-9291
FAX (708) 252-5128
goldman@atlantis.eid.anl.gov

Argonne National Laboratory
9700 South Cass Avenue •EID/900
Argonne, IL 60439-4832

ARGONNE

STARWAVE
CORPORATION

Steve Wood
President

Office (206) 957-2000
Direct (206) 637-8023
FAX (206) 957-2009

13810 S.E. Eastgate Way
Suite 400
Bellevue, WA 98005

CRS

JEFFREY C. GRIFFITH
Deputy Associate Director
for Automation
Congressional Research Service

Library of Congress
Washington DC 20540

Phone (202) 707-2475
Fax (202) 707-3670

Elliot R. Siegel, Ph.D.
Assistant Director for Planning and Evaluation
National Library of Medicine
(301) 496-8834

8600 ROCKVILLE PIKE • BETHESDA, MARYLAND 20894

T.R.A.D.E.
BUSINESS INTELLIGENCE

Christopher Logan
Vice President
Data Operations & Product Development

TRADE, Inc.
2755 Campus Drive
San Mateo, CA 94403 USA
(415) 513-0930 Fax: (415) 513-0944

Brewster Kahle

Thinking Machines Corporation

245 First Street
Cambridge, MA 02142-1214
Tel. 617 876-1111

DMB

PROPERTIES

ALEX G. CAPTANIAN
Realtor®

3 Buena Vista East
San Francisco, CA 94117

(415) 626-3391

PAINTING SCULPTURE ARCHITECTURE
RANCHING

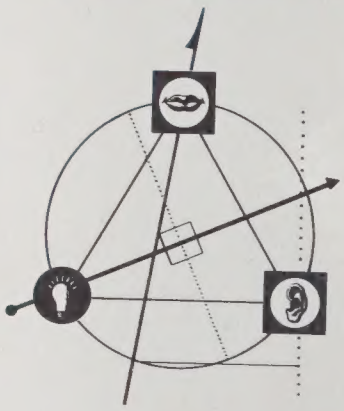
JIRAYR H. ZORTHIAN
3990 N. FAIR OAKS AVE.
ALTADENA, CALIF. 91001

(213) 681-0564
(818) 797-3359

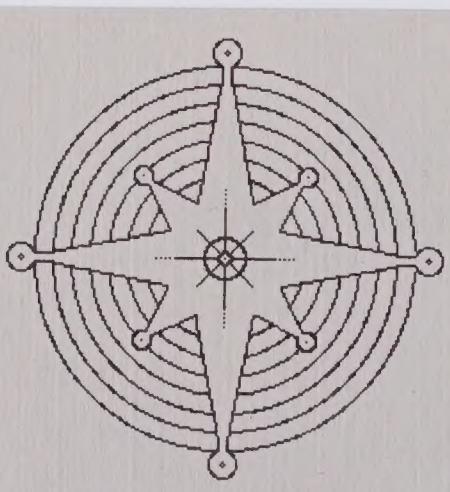
N I E H A U S R Y A N H A L L E R

Public Relations, Inc.

Melody Kean Haller
Principal



Tel: 415 615-7907
ApL: MHALLER.NRH
MCI: 352-9614, Fax: 415 615-7901
601 Gateway Blvd., Suite 930, S. San Francisco, CA 94080-7009



Polling systems to go
'Cyberlights' Message Modules

Daniel Kottke
owner

Pollstar Systems
251 Webster St.
Palo Alto, CA 94301
415.326.7147
415.329.1849 fax
email: dgk@well.sf.ca.us

Izumi Aizu

Research Director

INSTITUTE FOR HYPERNETWORK SOCIETY

51-8 Higashi Kasuga-cho, Oita City, Oita 870 JAPAN
TEL:+81-975-37-8180 FAX:+81-975-37-8820

Tokyo Office:
Shoyu Kaikan, 3-3-1 Kasumigaseki, Chiyoda-ku, Tokyo 100 JAPAN
TEL:+81-3-3506-8180 FAX:+81-3-3506-8181
e-mail: izumi@glocom.ac.jp

pam mandel

desktop publishing & graphics

662 mountain view avenue
mountain view, ca 94041
415•968•1237

GEORGE
LITHOGRAPH

J. Curtiss Taylor
President

(415) 267-4616
650 Second Street • PO Box 77085
San Francisco, CA 94107 • (415) 397-2400 • FAX 267-4626

synopsys®

Synopsys Inc.
700 East Middlefield Road
Mountain View, CA 94043-4033
Telephone: (415) 694-4212
Fax: (415) 965-8637
email:holly@synopsys.com

Holly Cohen
Product Marketing Manager

faxon

DAVID FEIGHAN

CLIENT LIAISON MANAGER

TEL: 03 419 3132
FAX: 03 419 3134
FREE: 03 813 211

FAXON AUSTRALIA P/L
5/189 JOHNSTON STREET
FITZROY, VIC. 3065

Zara Houshmand

Interactive Media Specialist

530-A Clipper Street
San Francisco, CA 94114
415/641-5274

InterCon

Jeffrey Shapard

Business Developer
<jefu@intercon.com>

InterCon Systems Corporation
950 Herndon Parkway
Herndon, VA 22070 USA
+1.703.709.5500 (tel)
+1.703.709.5555 (fax)

InterCon International KK
Koishikawa MK Bldg 6F
Koishikawa 5-3-3, Bunkyo-ku
Tokyo 112 Japan
+81.3.5802.4590 (tel/fax)

AMERICA ONLINE
INCORPORATED

Steve Case
President

8619 Westwood Center Drive
Vienna, Virginia 22182-2285

703/448-8700
FAX 703/883-1509

America Online: SteveC
Internet: stevec@aol.com

HARVARD UNIVERSITY

Brian Kahin

Director, Information Infrastructure Project
Science, Technology and Public Policy Program
Center for Science and International Affairs
John F. Kennedy School of Government
79 John F. Kennedy St.
Cambridge, Massachusetts 02138

(617) 495-8903
Fax: (617) 495-5776

kahin@hulaw1.bitnet
kahin@hulaw1.harvard.edu

Charles Ashley

Reporter

Learned Information Ltd
Unit One, 26-31 Whiskin St
London EC1R 0BP, UK
Tel: +44(0)71 336 7344
Fax: +44(0)71 336 7967

Internet:
ashley@chaz.demon.co.uk

CompuServe: 71333,624

U.S. DEPARTMENT OF COMMERCE
ECONOMICS AND STATISTICS ADMINISTRATION

KENNETH W. ROGERS
DIRECTOR
INFORMATION PRODUCT DEVELOPMENT

HCHB 4887
WASHINGTON, D.C. 20230
(202) 482-0434
FAX: (202) 482-2164

ECONOMIC BULLETIN BOARD
NATIONAL TRADE DATA BANK
NESE-DB, EBB/FAX
INFO/HELP: (202) 482-1986

HARRY A. ATWATER
Assistant Professor of Applied Physics

CALIFORNIA INSTITUTE OF TECHNOLOGY
Mail Code 128-95, Pasadena, CA 91125 • (818) 356-2197
haa@daedalus.caltech.edu • FAX: (818) 356-2944

Design Continuum Inc.

648 Beacon St.
Boston, MA 02215
617. 267. 5115

Andrew G. Ziegler

Telefax. 617. 267. 3923

Connect-activist in transition. . . *Haas School of Biz*
Cal Berkeley

Jeffrey Shapard

Sunset Townhouses
3375 Carlson Blvd #7
El Cerrito, CA 94530 USA

jefu@haas.berkeley.edu
tel: +1.510.527.8554 (h)
fax: +1.510.642.4769 (o)

MANAGING CELLULAR FACILITIES

JOHN J. MARBLE
PRESIDENT

Add
AUTOMATED
DATA
DELIVERY
SERVICES

6901 COLUMBIA CENTER
701 FIFTH AVENUE
SEATTLE, WASHINGTON
98104•7016
206•386•5454 TEL.
206•953•2834 ACCESS
206•386•5528 FAX

INTERNATIONAL UNIVERSITY OF JAPAN
CENTER FOR GLOBAL COMMUNICATIONS (GLOCOM)

Adam Peake
RESEARCH FELLOW

OFFICE
5-2-32, MINAMI AZABU,
MINATO-KU, TOKYO, 106 JAPAN
TEL (03) 3449-7225
FAX (03) 3449-7744

HOME
TEL&FAX (03) 3643-1415
E-Mail:a jp@glocom.ac.jp